

Claims

[c1] What is claimed is:

1.A latch device of a lid to a compartment of a vehicle, which prevents unintentional trunk entrapment, the latch device comprising:

a striker in co-operation with a spring biased, pivotally arranged claw, the claw either being held in a locked position, encircling the striker, by a primary releasable pawl wherein the pawl is spring biased and being held in a ready-to-engage state; and

a secondary release pawl being operable to store energy upon closing the trunk lid, the secondary release pawl being connected to an arrangement situated in the compartment for the release of the secondary pawl, should a person become entrapped inside the compartment, to thereby while releasing the claw from its striker momentarily release the energy stored in the elastic biasing system against either the lid or part of the structure of the vehicle, to thereby positively force the lid to a visibly open position.

[c2] 2.The device according to claim 1, wherein the elastic biasing system comprises:

a pop-up bar, part of which is encircled by a coil spring acting between a part of a lid or a part of the structure of the vehicle; and

an abutment on the bar, the abutment acting both as such to said spring and as an abutment to said secondary release pawl.

[c3] 3.The device according to claim 1, wherein the secondary release pawl is spring biased and is actuated by making use of a cable connected to the secondary pawl.

[c4] 4.The device according to claim 1, further comprising: a cable being operable as a release mechanism, wherein the cable is connected to the secondary pawl, the cable further comprising an easy to grip shape, being provided with a fluorescent portion to be visible in complete darkness.

[c5] 5.The device according to claim 1, further comprising: a normally used actuating system including one of a bowden cable or an electrically powered actuator, wherein one of the Bowden cable or the electrically powered actuator is connected to the primary pawl, where the electrically powered actuator may be remotely controlled.

[c6] 6.The device according to claim 1, comprising a normally

used actuating system including a shape memory alloy element as a part of said pawl, to be locally exposed to heat, such as electrically generated heat, to actuate.

[c7] 7.The device according to claim 1, wherein the elastic bi-
asing system includes a block bar which automatically
blocks said system in an open position for the lid.

[c8] 8.The device according to claim 1, wherein the elastic bi-
asing system includes a spring biased pop-up bar which
in an open position for the trunk lid is transversally
blocked by a block bar due to its cooperation with the
claw of the lid latch device